

Plenco 51015 PET, Pellet, Injection Molded, Natural Color (discontinued **)

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

PLENCO 51015 is an engineering grade glass reinforced recycled polyethylene terephthalate resin designed for increased flexibility and good physical strength. It is UL listed. Information supplied by Plenco Plenco discontinued their PET product line in 2005.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-51015-PET-Pellet-Injection-Molded-Natural-Color-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570
Linear Mold Shrinkage	0.0012 cm/cm	0.0012 in/in	ATM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	114.2 MPa	16560 psi	ASTM D638
Elongation at Break	1.97 %	1.97 %	ASTM D638
Tensile Modulus	6.53 GPa	947 ksi	ASTM D638
Flexural Yield Strength	155.9 MPa	22610 psi	ASTM D790
Flexural Modulus	6.99 GPa	1010 ksi	ASTM D790
Compressive Yield Strength	155.8 MPa	22600 psi	ASTM D695
Izod Impact, Notched	0.610 J/cm	1.14 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	213 °C	415 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	3.695e+16 ohm-cm	3.695e+16 ohm-cm	ASTM D257
Dielectric Constant	3.0 @Frequency 1e+6 Hz	3.0 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	17.2 kV/mm	437 kV/in	Short Time; ASTM D149

Electrical Properties	Metric	English	Comments
Dielectric Factor	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	ASTM D150
Arc Resistance	80 sec	80 sec	ASTM D495
Comparative Tracking Index	225 V	225 V	ASTM D3638

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